

FIG.3

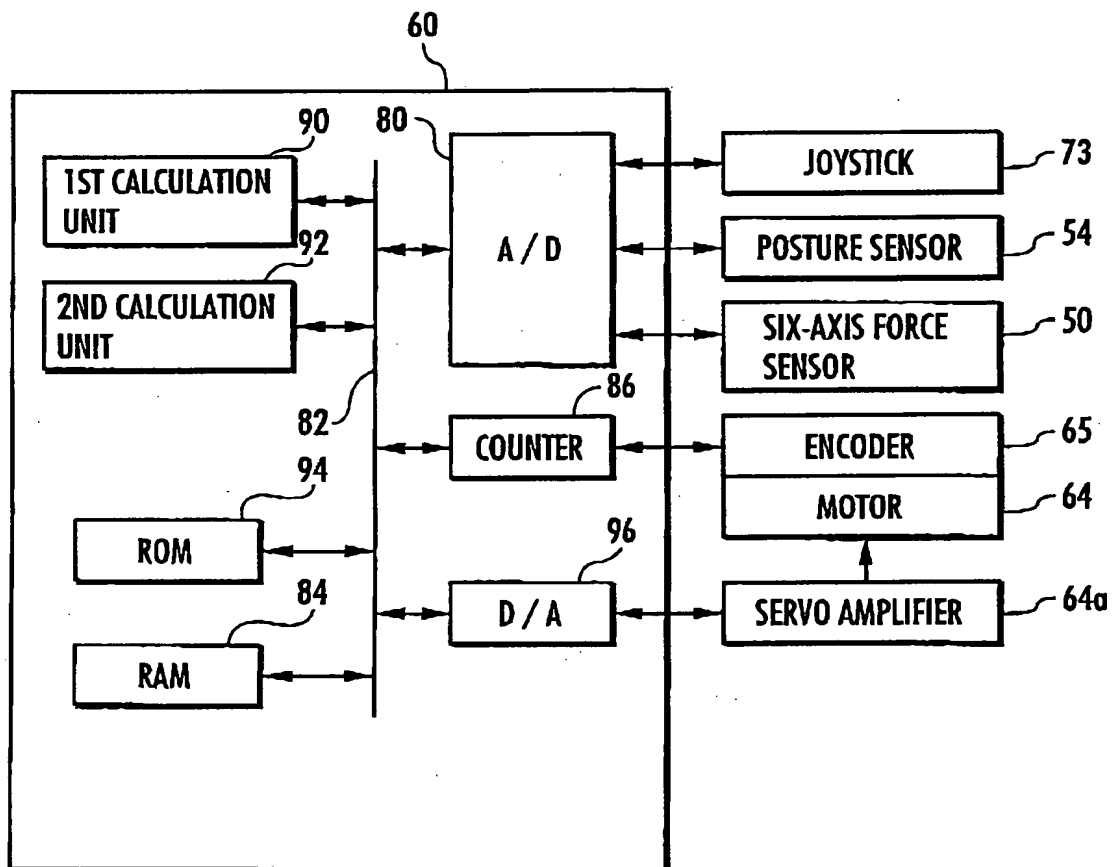


FIG.16

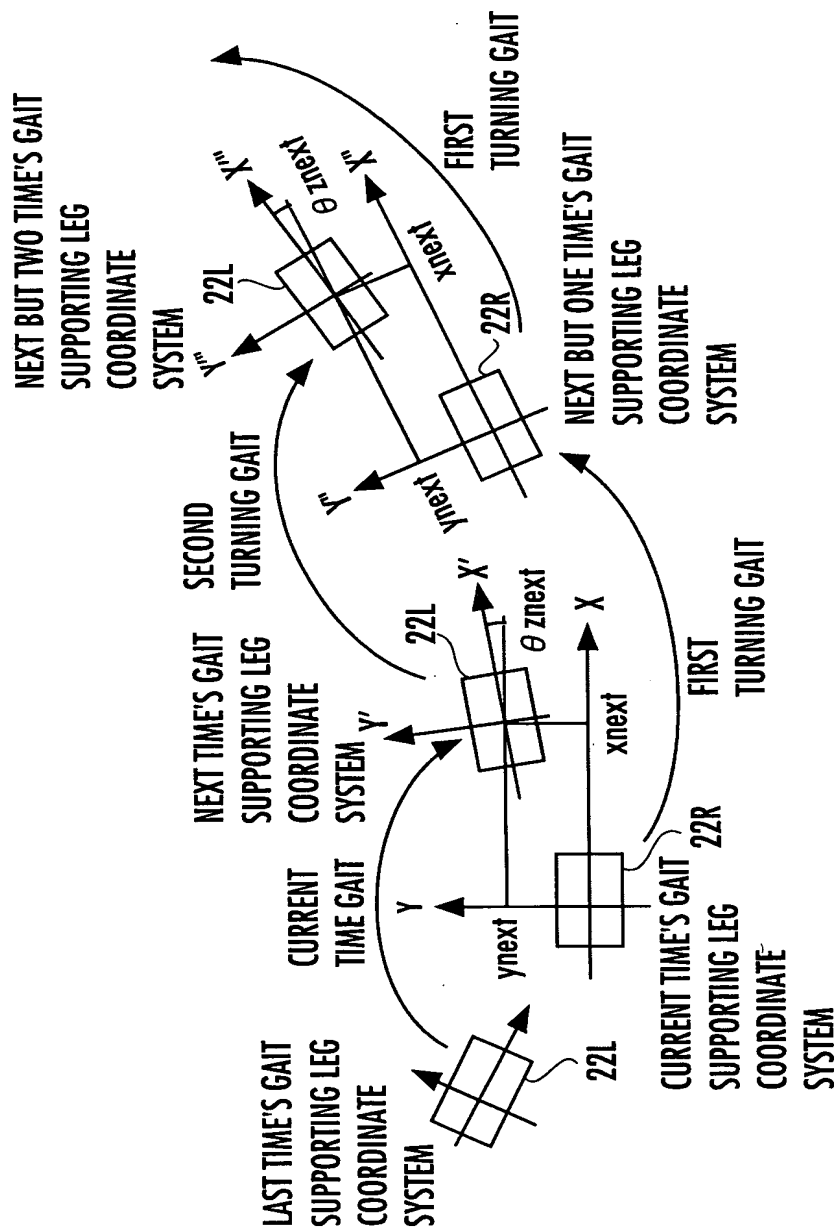


FIG.17

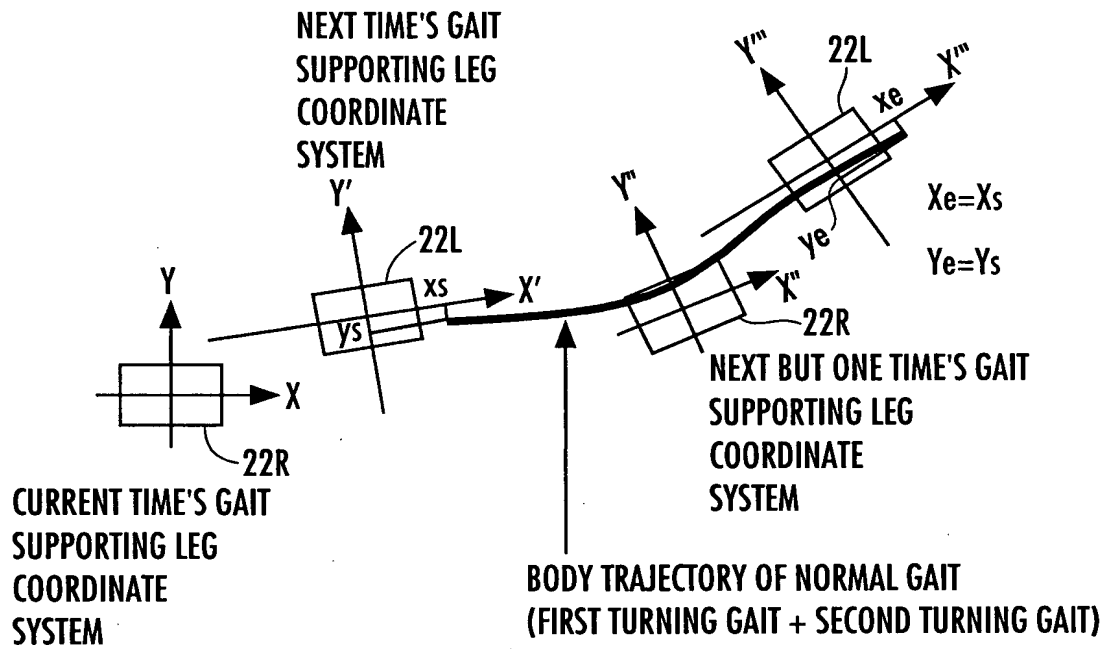


FIG.42

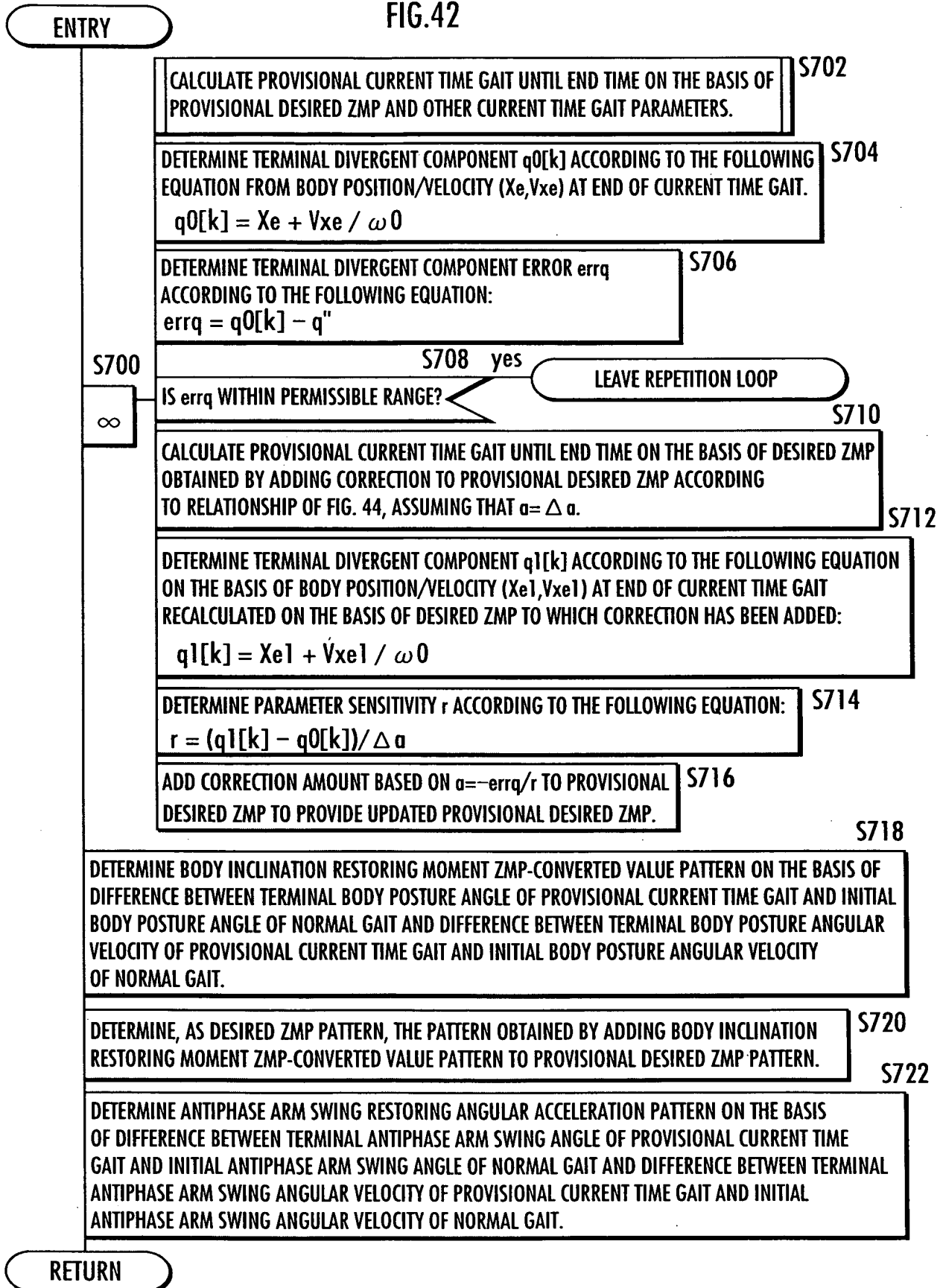


FIG.43

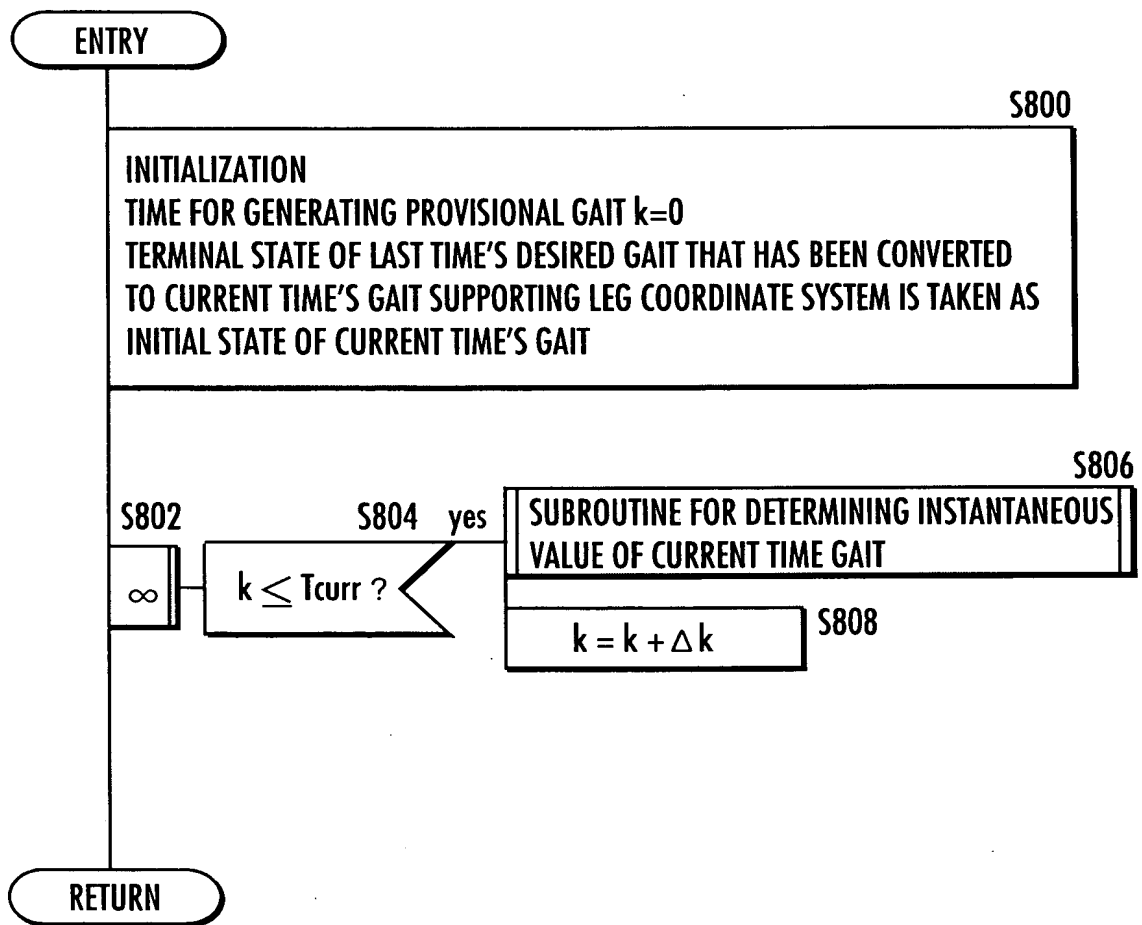


FIG.62

ENTRY

DETERMINE DIFFERENCE IN HORIZONTAL BODY POSITION BETWEEN MODELS, S2200
WHICH IS THE DIFFERENCE BETWEEN HORIZONTAL BODY POSITION OF
CORRECTED GAIT AND HORIZONTAL BODY POSITION OF ORIGINAL GAIT.

DETERMINE DIFFERENCE IN BODY POSTURE INCLINATION ANGLE BETWEEN MODELS, S2202
WHICH IS THE DIFFERENCE BETWEEN BODY POSTURE INCLINATION ANGLE OF CORRECTED
GAIT AND BODY POSTURE INCLINATION ANGLE OF ORIGINAL GAIT.

DETERMINE DIFFERENCE IN ANTIPHASE ARM SWING ANGLE BETWEEN MODELS, S2204
WHICH IS THE DIFFERENCE BETWEEN ANTIPHASE ARM SWING ANGLE OF
CORRECTED GAIT AND ANTIPHASE ARM SWING ANGLE OF ORIGINAL GAIT.

DETERMINE REQUIRED VALUE OF MODEL HORIZONTAL BODY POSITION STABILIZATION FLOOR S2206
REACTION FORCE MOMENT NECESSARY TO CONVERGE DIFFERENCE TO ZERO ON THE BASIS OF
DIFFERENCE IN HORIZONTAL BODY POSITION BETWEEN MODELS.

DETERMINE REQUIRED VALUE OF MODEL BODY POSTURE INCLINATION ANGLE STABILIZATION S2208
FLOOR REACTION FORCE MOMENT NECESSARY TO CONVERGE DIFFERENCE TO ZERO ON THE BASIS
OF DIFFERENCE IN BODY POSTURE INCLINATION ANGLE BETWEEN MODELS.

DETERMINE REQUIRED VALUE OF MODEL ANTIPHASE ARM SWING ANGLE STABILIZATION FLOOR S2210
REACTION FORCE MOMENT NECESSARY TO CONVERGE DIFFERENCE TO ZERO ON THE BASIS OF
DIFFERENCE IN ANTIPHASE ARM SWING ANGLE BETWEEN MODELS. S2212

DETERMINE MODEL HORIZONTAL BODY POSITION STABILIZATION MOMENT, MODEL BODY POSTURE ANGLE
STABILIZATION MOMENT, MODEL ANTIPHASE ARM SWING ANGLE STABILIZATION MOMENT, HORIZONTAL
BODY ACCELERATION, BODY POSTURE ANGULAR VELOCITY, AND ANTIPHASE ARM SWING ANGULAR
ACCELERATION SUCH THAT THEY SATISFY RESTORING CONDITIONS.

MODEL MANIPULATION FLOOR REACTION FORCE MOMENT HORIZONTAL COMPONENT S2214
= MODEL HORIZONTAL BODY POSITION STABILIZATION MOMENT
+ MODEL BODY POSTURE ANGLE STABILIZATION MOMENT

DESIRED FLOOR REACTION FORCE MOMENT HORIZONTAL COMPONENT FOR COMPLIANCE CONTROL S2216
= COMPENSATING TOTAL FLOOR REACTION FORCE MOMENT HORIZONTAL COMPONENT M_{dmdxy}
+ MODEL MANIPULATION FLOOR REACTION FORCE MOMENT HORIZONTAL COMPONENT

DESIRED FLOOR REACTION FORCE MOMENT VERTICAL COMPONENT FOR COMPLIANCE CONTROL S2218
= COMPENSATING TOTAL FLOOR REACTION FORCE MOMENT VERTICAL COMPONENT M_{dmdz}
+ FLOOR REACTION FORCE MOMENT VERTICAL COMPONENT BALANCING WITH CORRECTED GAIT

RETURN

FIG.75

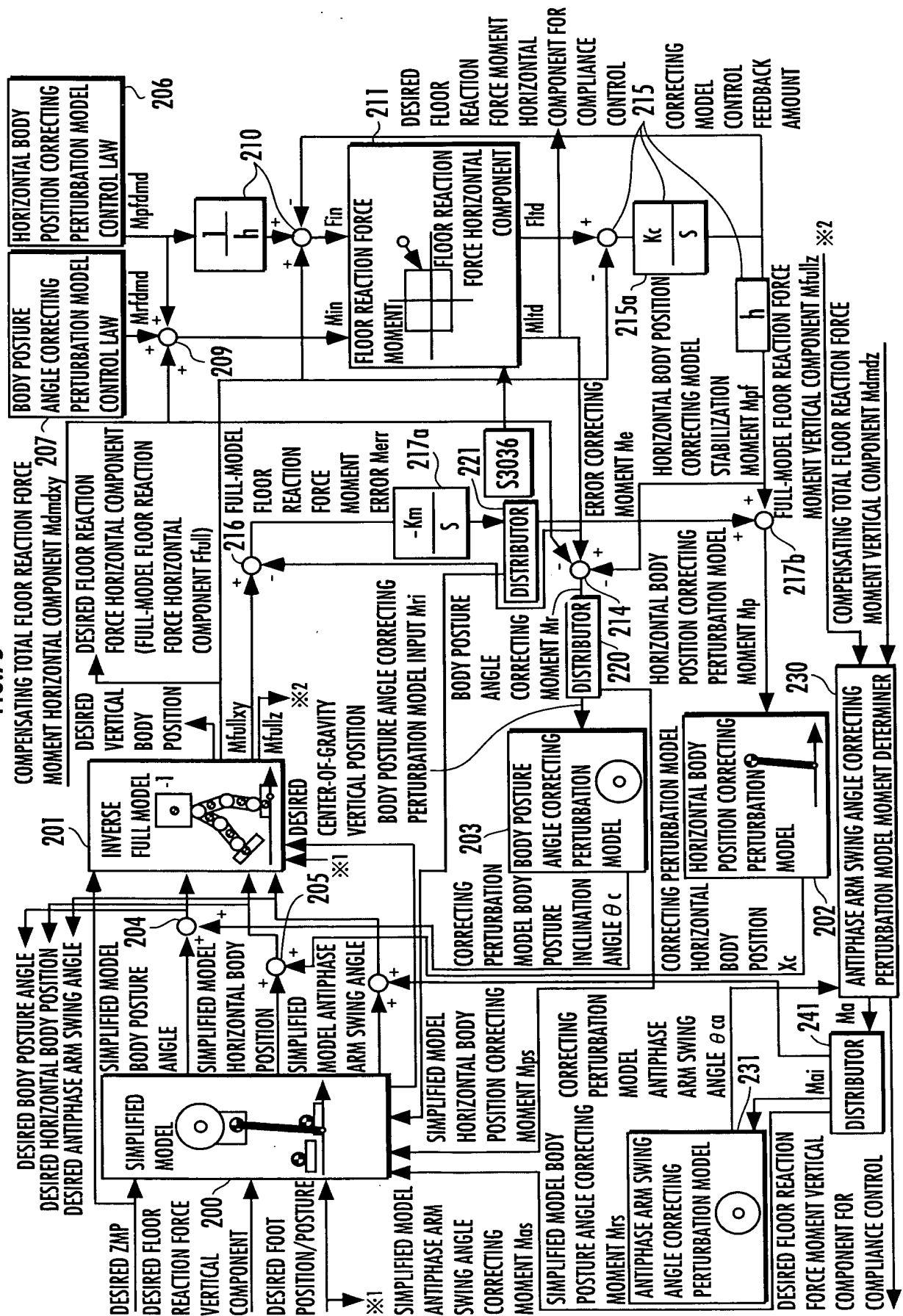


FIG.79

